WHAT IS CLAIMED IS:

1. A program recording/reproducing method of demultiplexing predetermined program signals from multiplexed signals into which a plurality of program signals are time-division-multiplexed per predetermined multiplexing unit and recording these demultiplexed program signals, comprising:

an extracting step of extracting the predetermined program signals from the multiplexed signals;

a recording step of recording the program signals on recording means;

a reading step of reading the program signals out of the recording means; and

a speed converting step of outputting the program signals read out so that an output interval on each multiplexing unit becomes coincident with a time interval in the multiplexed signals.

2. A program recording/reproducing apparatus for demultiplexing predetermined program signals from multiplexed signals into which a plurality of program signals are time-division-multiplexed per predetermined multiplexing unit and recording these demultiplexed program signals, comprising:

extracting means for extracting the predetermined program signals from the multiplexed signals;

recording means for recording the program signals;

reading means for reading the program signals out of the recording means; and

speed converting means for outputting the program signals read by said reading means so that the output interval on each multiplexing unit becomes

coincident with the time interval in the multiplexed signals.

3. A program recording/reproducing apparatus, to which streaming signals of which a plurality of program signals are time-division-multiplexed based on an MPEG2-TS are inputted, for demultiplexing predetermined coded program signals out of the streaming signals and recording these program signals, said apparatus comprising:

extracting means for extracting program packets of the predetermined coded program signals from the streaming signals;

recording means for recording the respective program packets and a discarded packet count of the packets discarded between two consecutive program packets;

reading means for reading the coded program signals out of said recording means; and

speed converting means for outputting the coded program signals read out by said reading means after inserting null packets corresponding to the discarded packet count in between the two consecutive program packets.

4. A program recording/reproducing apparatus according to claim 3, further comprising speed detecting means for detecting a speed of the steaming signals based on the number of packets contained per unit time when receiving the streaming signals,

wherein said speed detecting means outputs the program signals at the speed detected.

30

5. A program recording/reproducing apparatus according to claim 3, further comprising speed detecting means for detecting, during a reproducing process, a speed of the streaming signals on the basis of time management information contained in the streaming signals,

wherein said speed converting means outputs the coded program signals at the speed detected.

6. A program recording/reproducing apparatus according to claim 3, wherein said recording means records one control packet structured in the same format as the program packet as a substitute for the discarded packet, thereby recording a discarded packet count of the packets discarded between two consecutive program packets.

7. A program recording/reproducing apparatus according to claim 3, wherein said recording means records a discarded packet count of the packets discarded between two consecutive program packets at every interval therebetween, thereby recording a discarded packet count of the packets discarded between two consecutive program packets.

8. A program recording/reproducing apparatus according to claim 3, wherein said recording means records a stream management packet as a first recording packet of the predetermined coded program signal.

9. A program recording/reproducing apparatus according to claim 8, wherein

said recording means records a program packet containing time management information after the stream management packet, and subsequently records an intra frame coded program packet.

10. A program recording/reproducing apparatus according to claim 3, wherein said recording means records each program packet and the discarded packet count of the packets discarded between the two consecutive program packets on a magnetic tape, a magnetic disk, or an optical disk.